IN THE CLAIMS:

The pending claims are set forth below and have been amended and/or cancelled; without prejudice, where noted:

1-33. (Cancelled)

34. (Currently Amended) A method for the recovery of a slurry of polymer solidsparticles from a polymerization reactor comprising:

recovering a slurry comprising polymer <u>solidsparticles suspended</u> in a liquid mediumdiluent from a loop reactor through a settling leg via a discharge valve;

passing the slurry from the loop reactor to a flash vessel;

reducing a pressure of the slurry from a first pressure to a second pressure within the flash vessel to vaporize the liquid <u>mediumdiluent</u> and form <u>diluent</u>-vapor;

removing at least a portion of the diluent-vapor from the flash vessel to form a concentrated slurry;

passing the concentrated slurry from the flash vessel to a transfer vessel; measuring a level of polymer solidsparticles within the flash vessel;

continuously withdrawing an amount of polymer <u>solidsparticles</u> from the transfer vessel and passing the amount of polymer <u>solidsparticles</u> from the transfer vessel to a purge vessel, the amount adapted to maintain the level of polymer <u>solidsparticles</u> within the flash vessel at a predetermined level;

removingseparating remaining <u>liquid</u>diluent from the polymer <u>solidsparticles</u> within the purge vessel; and

recovering the polymer solidsparticles from the purge vessel.

- 35. (Previously Presented) The method of claim 34 further comprising passing a nitrogen containing gas through the purge vessel to remove accumulated liquid from the polymer slurry in the purge vessel.
- 36. (Currently Amended) The method of claim 34, wherein the predetermined level of polymer solidsparticles seals the flash vessel from the purge vessel.

- 37. (Currently Amended) The method of claim 34, wherein the polymer solidsparticles comprise an olefin polymer.
- 38. (Previously Presented) A system for the recovery of a polymer from a polymerization reactor comprising:
- a polymerization loop reactor adapted to contact an olefin monomer with a catalyst system to form an olefin polymer within a polymer slurry and comprising a settling leg;
- a flash vessel operably connected to the settling leg of the polymerization reactor and adapted to receive the polymer slurry and vaporize at least a portion of diluent from the polymer slurry;
 - a purge vessel adapted to separate remaining diluent from the polymer slurry;
 - a transfer vessel disposed between the flash vessel and the purge vessel;
 - a first valve disposed between the flash vessel and the transfer vessel; and
- a second valve disposed between the transfer vessel and the purge vessel, the first and second valves adapted to maintain a predetermined level of polymer slurry within the purge vessel.
- 39. (Previously Presented) The system of claim 38 further comprising a control system operably connected to the first valve and the second valve and adapted to communicate with the same.
- 40. (Previously Presented) The system of claim 39, wherein the control system is adapted to measure a level of polymer slurry within the transfer vessel.